DECLARATION

- I, Jeff Littlejohn, hereby declare under penalty of perjury that:
- 1. I am Executive Vice President-Engineering & Systems Integration of iHeartCommunications, Inc., debtor in possession ("iHeart").
- 2. iHeart is a member of the AM Radio Preservation Alliance, which is submitting Comments to the Federal Communications Commission (the "Commission") on its Second Further Notice of Proposed Rule Making, FCC 18-249, MB Docket No. 13-249 (rel. Oct. 5, 2018) ("SFNPRM").
- 3. In the *SFNPRM*, the Commission has requested comments on two alternative proposals to reduce nighttime interference protections to Class A AM stations. *See SFNPRM* at ¶ 12. Both nighttime hours proposals set forth in the *SFNPRM* would eliminate the current interference protection to a Class A AM station's skywave contour and substitute a protection factor based on the Class A AM station's 0.5 mV/m nighttime groundwave contour. *See id*.
- 4. To provide the Commission with documentation of current, measured nighttime listening by the public to Class A AM stations' skywave signals, which would be subject to interference under the *SFNPRM* nighttime alternatives, iHeart tapped into nationwide audience data (reported by county) in the Nielsen Audio National Regional Database, Monday-Sunday 8pm-6am, Persons Age 12+ (Spring 2018) for every Class A AM station in the 48 contiguous states (57 stations total). The resulting nighttime audience data is set forth in the attached spreadsheet labeled "P12+ Audience by Station, M-Su 8p-6a, Nielsen Audio National Regional Database, Spring 2018."

- 5. For each of the 57 Class A AM stations, iHeart identified the zip codes encompassed by that Class A AM station's 0.5 mV/m nighttime groundwave contour, and tied each zip code to its county (or multiple counties if a zip code crossed county lines). All such counties were deemed as "in" the Class A AM station's 0.5 mV/m nighttime groundwave contour. Nielsen nighttime audience data for AQH and Cume (detailed below) was isolated into figures for Total (all Nielsen-rated nighttime listeners to that station) and Groundwave (all Nielsen-rated nighttime audience within the counties computed as encompassed by that station's 0.5 mV/m nighttime groundwave contour). To determine the Skywave Audience, the Groundwave audience was subtracted from the Total Audience. The percentages of measured nighttime listening within each Class A AM station's 0.5 mV/m nighttime groundwave contour and of measured nighttime listening via the Class A AM station's skywave signal were also calculated, both AQH and Cume nighttime audience data. This analysis of the proportions of Skywave versus 0.5 mV/m Groundwave nighttime listening to the 57 Class A AM stations is presented on the spreadsheet attached to this Declaration.
- 6. Note that because one single 0.5 mV/m groundwave zip code in a county was enough to include the entire county as part of the "Groundwave" audience, the analysis may *overstate* the audience listening via the station's 0.5 mV/m nighttime groundwave signal and *understate* the audience listening via the station's skywave signal. Note also, for the nine Class A AM stations broadcasting AM-FM simulcasts, the audience data may reflect listening on both services. This simulcast information inflates the size of the audience reported as "Groundwave" but does not inflate the "Skywave" audience. This may lead to a further *underreporting* of the Skywave percentages.
- 7. Nielsen Audio is an independent source of radio measurement relied upon by the radio industry and advertisers to make programming and advertising-placement decisions. *See* http://www.nielsen.com/us/en/solutions/capabilities/audio.html. AQH, or Average Quarter-Hour Persons, is defined by Nielsen as "[t]he average number of persons listening to a particular station for at least five minutes during a 15-minute period." *See* http://www.arbitron.com/downloads/terms_brochure.pdf. Cume Persons is defined by Nielsen as "[t]he total number of

different persons who tune to a radio station during the course of a daypart for at least five minutes." *Id*.

- 8. The first attached table, labeled "P12+ Audience by Station, M-Su 8p-6a, Nielsen Audio National Regional Database, Spring 2018," documents that across all 57 Class A AM stations in the lower 48 states, the average of AQH nighttime listening via skywave reception constitutes 11% of all nighttime listening and the average of Cume nighttime listening via skywave reception is 10%. Therefore, substantial portions of measured nighttime listening would be subject to interference under either of the SFNPRM's alternative options for reduced nighttime protections to Class A AM stations. Also as reported in the attached spreadsheet, skywave reception over groundwave reception constitutes even greater percentages of the nighttime audience for individual Class A AM stations, including 70% (AQH) of the nighttime audience for WLAC (Nashville, TN), 60% (AQH) of the nighttime audience for WWVA (Wheeling, WV), 58% (Cume) of the nighttime audience for WSM (the Grand Ole Opry station, Nashville, TN), and 33% (Cume) of the nighttime audience for WRVA (Richmond, VA). Class A AM Station KAAY (Little Rock, AR) primarily reaches its nighttime audience for its religious programming through its skywave signal, with 100% (Cume) of KAAY's nighttime audience coming from skywave reception.
- 9. The second attached table, labeled "Percentage of Daytime Listening," Weekly Cume P12+, M-Su 6a-7p (Source: Nielsen National Regional Database, Spring 2018)," reflects Nielsen Audio National Regional Database *daytime* measured listening for all 57 Class A AM stations in the lower 48 states. This Nielsen Audio daytime data is reported by county. For each analyzed station, that reported Cume daytime audience data has been segregated to determine listening from counties that are outside, in whole or in part, each station's 0.5 mV/m daytime groundwave contour, and the percentage of such listening is listed on the table. For example, for Class A AM Station KAAY, Little Rock, Arkansas, 34.8% of all measured daytime listening to KAAY is wholly outside KAAY's 0.5 mV/m daytime groundwave contour. When factoring in listening data for counties that are partially outside KAAY's 0.5 mV/m daytime groundwave contour, up to 35.9% of KAAY's daytime audience is outside that zone.

Jeff Littlejohn

Dated: January 29, 2019

Martin				Groundwave		Skywave AQH		Groundwave	Skywave	Skywave
NWYN-AM 21749 500 200 300 600 7,700 4500 3,400 3,000 500 7,700 4500 500 500 7,700 500 500 7,700 500 5	Station	Station ID	Total AQH		Skywave AQH		Total Cume		•	•
WISH-AMM 21975 6.900 5.000 1.800 2.978 24,700 2.900 2.5,000 3.7,000 3.8,00	WLAC-AM	18637	1,000	300	700	70%	17,100	10,200	6,900	40%
WTANAM	WWVA-AM	21749	500	200	300	60%	7,900	4,500	3,400	43%
SETE-AM	WSM-AM	20801	3,400	1,800	1,600	47%	43,900	18,500	25,400	58%
SCAM/FM 13190	WTAM-AM	21757	6,900	5,100	1,800	26%	241,700	204,200	37,500	16%
EDMOD AM/FM 13112 2,400 1.900 500 21% 131,600 118,700 12,900 11	KXEL-AM	14832	400	300	100	25%	9,800	8,700	1,100	11%
WEED-AM	KSL-AM/FM	13909	2,800	2,200	600	21%	110,200	102,100	8,100	7%
NEWLAM 20576 1000 1000 178 33,000 20,000 301 1010 178 33,000 22,500 5,000 20,000 301 1010 178 33,000 23,800 23,800 24,000 25,000 1010 178 28,200 22,700 5,500 20 WALLAM 15869 1,900 1	KOMO-AM/FM	13112	2,400	1,900	500	21%	131,600	118,700	12,900	10%
STF-AM	WFED-AM	33248	500	400	100	20%	30,800	25,400	5,400	18%
MCKY-AM 20626 600 S00 100 17% 28,200 22,700 5,500 27 WIS-AM 15889 1,900 1,600 300 16% 63,500 53,900 9,600 11,400 WIS-AM 18869 2,900 2,500 400 14% 101,300 89,900 11,400 11 WIS-AM 18673 800 7,000 600 13% 133,500 121,200 12,300 90 WOAL-AM 19641 2,500 2,200 300 12% 88,500 84,800 3,700 4 WARS-AM 1523 7,600 6,800 800 11% 28,010 270,000 10 10 10 4 WARS-AM 15977 1,4500 13,400 200 10% 221,100 203,300 17,800 3 WAW-AM/HM 19341 2,000 1,000 200 10% 167,800 151,800 16,000 11 10 10	WRVA-AM	20576	2,400	2,000	400	17%	30,600	20,500	10,100	33%
WRIA-AM 18589 1,900 1,600 2,500 400 148 101,300 89,900 11,400	KSTP-AM	14018	600	500	100	17%	33,200	23,800	9,400	28%
NISSAM 18869 2,900 2,500 400 14** 101,300 89,900 11,400 12 WIRAM 18972 4,800 4,200 600 13% 133,500 121,200 12,300 WARAM 14537 800 700 100 13% 133,500 121,200 12,300 WARAM 14537 800 700 100 13% 138,500 8,000 900 1 WARAM 19641 2,500 2,200 300 12% 88,500 84,800 3,700 WARAM 15233 7,600 6,800 800 11% 228,100 270,000 10,100 4 WIW-AM 18944 7,800 7,000 800 10% 221,100 203,300 17,800 18 WIW-AM 18944 7,800 7,000 800 10% 561,600 550,700 10,900 10,000	WCKY-AM	20626	600	500	100	17%	28,200	22,700	5,500	20%
NURSAM 18992 4,800 4,200 600 13% 133,500 121,200 12,300 5	WBAL-AM	15589	1,900	1,600	300	16%	63,500	53,900	9,600	15%
EACL_AM 19641 2,500 2,200 300 1295 8,800 8,800 8,800 8,900 9,00 1,50	WLS-AM	18869	2,900	2,500	400	14%	101,300	89,900	11,400	11%
WABC-AM 19641 2,500 2,200 300 12% 88,500 84,800 3,700 4	WJR-AM	18092	4,800	4,200	600	13%	133,500	121,200	12,300	9%
WABC-AMM 15233 7,600 6,800 800 11% 280,100 270,000 10,100 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	KFAQ-AM	14537	800	700	100	13%	9,800	8,900	900	9%
WABC-AM 1523 7,500 6,800 800 11% 280,100 270,000 10,100 4 4 4 4 4 4 4 4 4	WOAI-AM	19641	2,500	2,200	300	12%	88,500	84,800	3,700	4%
WCBS-AMI 15977 14,900 13,400 1,500 10% 561,600 550,700 10,000 2 WMMP-AM 19341 2,000 1,800 200 10% 167,800 151,800 16,000 1 WBT-AM/FM 15870 1,000 900 100 10% 67,000 57,800 9,200 1 WWL-AM/FM 21082 2000 1800 200 10% 51200 47500 3,700 3 WITC-AM 21058 2,300 2,100 200 9% 75,000 68,200 5,800 5 WBBR-AM 15623 1,200 1,100 100 8% 67,100 61,400 5,700 8 WBC-AM 15934 10,300 9,500 800 8% 241,500 224,300 17,200 3 KGG-AM 11626 4,600 4,300 300 7% 110,800 104,600 6,200 6 6 226,000 14 4,600 <td>WABC-AM</td> <td>15233</td> <td>7,600</td> <td>6,800</td> <td>800</td> <td>11%</td> <td>-</td> <td>270,000</td> <td>10,100</td> <td>4%</td>	WABC-AM	15233	7,600	6,800	800	11%	-	270,000	10,100	4%
WCBS-AMI 15977 14,900 13,400 1,500 10% 561,600 550,700 10,000 2 WMMP-AM 19341 2,000 1,800 200 10% 167,800 151,800 16,000 1 WBT-AM/FM 15870 1,000 900 100 10% 67,000 57,800 9,200 1 WWL-AM/FM 21082 2000 1800 200 10% 51200 47500 3,700 3 WITC-AM 21058 2,300 2,100 200 9% 75,000 68,200 5,800 5 WBBR-AM 15623 1,200 1,100 100 8% 67,100 61,400 5,700 8 WBC-AM 15934 10,300 9,500 800 8% 241,500 224,300 17,200 3 KGG-AM 11626 4,600 4,300 300 7% 110,800 104,600 6,200 6 6 226,000 14 4,600 <td>WLW-AM</td> <td>18944</td> <td></td> <td></td> <td>800</td> <td>10%</td> <td></td> <td></td> <td></td> <td>8%</td>	WLW-AM	18944			800	10%				8%
WMV-AM 19341 2,000 1,800 200 10% 167,800 151,800 16,000 16 WBT-AM/FM 15870 1,000 900 100 10% 67,000 57,800 9,200 14 WWL-AM/FM 21082 2000 1800 200 10% 51200 57,000 37,000 17,700 17 KOA-AM 13022 5,500 5,000 500 9% 194,700 177,000 17,700 5 WITC-AM 21058 2,300 2,100 100 8% 67,100 61,400 5,700 8 WHO-AM 17533 3,700 3,400 300 8% 48,000 42,100 5,900 1 KMD-AM 15934 10,300 9,500 800 8% 241,500 17,200 1,7,200 KBG-AM 11526 4,600 4,300 300 7% 110,800 104,600 6,00 5 KBB-AM 11371 4,700<	WCBS-AM	15977		13,400	1,500	10%		550,700		2%
WWL-AM/FM	WMVP-AM	19341	2,000	1,800	200	10%	167,800	151,800	16,000	10%
KOA-AM 13022 5,500 5,000 500 9% 194,700 177,000 17,700 5 WTIC-AM 21058 2,300 2,100 200 9% 75,000 68,200 6,800 6 WBR-AM 15623 1,200 1,100 100 8% 67,500 61,400 5,700 8 WHO-AM 17533 3,700 3,400 300 8% 48,000 42,100 5,900 12 WBZ-AM 15934 10,300 9,500 800 8% 241,500 224,200 17,200 3 KGO-AM 11626 4,600 4,300 300 7% 110,800 104,600 6,200 6 KFEK-AM 11371 4,700 4,400 300 6% 123,000 114,600 8,400 WHAS-3M 15592 3,200 3,000 200 6% 57,200 51,800 5,400 6 KEX-AM 11301 1,700 1,600 100 6%	WBT-AM/FM	15870	1,000	900	100	10%	67,000	57,800	9,200	14%
WTIC-AM 21058 2,300 2,100 200 9% 75,000 68,200 6,800 9% WBBR-AM 15623 1,200 1,100 100 8% 67,100 61,400 5,700 100 WBS-AM 15934 10,300 9,500 800 8% 241,500 224,300 17,200 7,800 7,800 8,800 8% 241,500 224,300 17,200 7,800 7,800 8,800 8,800 8,800 8,800 8,800 1,700	WWL-AM/FM	21082	2000	1800	200	10%	51200	47500	3,700	7%
WBBR-AM	KOA-AM	13022	5,500	5,000	500	9%	194,700	177,000	17,700	9%
WHO-AM 17533 3,700 3,400 300 8% 48,000 42,100 5,900 12 WBZ-AM 15934 10,300 9,500 800 8% 241,500 224,300 17,200 WBZ-AM 12758 6,500 6,000 500 8% 267,000 240,200 26,800 10 KGO-AM 11626 4,600 4,300 300 7% 110,800 104,600 6,200 6 KGS-AM 11637 4,700 4,400 300 6% 123,000 114,600 8,400 WBAP-AM 15592 3,200 3,000 200 6% 57,200 51,800 9,100 WBAP-AM 17380 3,400 3,200 200 6% 57,200 51,800 9,100 KEY-AM 11301 1,700 1,600 100 6% 45,200 43,800 1,400 WSA-AM/WSB-FM 20637 10,800 10,200 660 6% 317,200 304,600 12,600 40 WFHT-AM 17243 1,900 1,800 100 5% 73,500 68,700 4,800 KFI-AM 11400 25,800 24,500 1,300 5% 594,800 578,000 16,800 KFI-AM 11377 2,500 2,400 100 4% 37,000 36,200 800 KRB-AM 113852 2,000 1,900 100 5% 43,000 40,300 2,700 60 KNBR-AM 12861 7600 7300 300 4% 30,2000 286700 15,300 KRO-AM 11961 2,700 2,600 100 4% 166,900 165,300 1,600 KRO-AM 13590 3,300 3,000 100 3% 40,100 39,000 1,100 KRRD-AM 13590 3,300 3,000 3,000 100 3% 40,100 31,000 11,000 KNBR-AM 11961 2,700 2,600 100 4% 166,900 165,300 1,600 KNBR-AM 13590 3,300 3,000 100 3% 40,100 39,000 1,100 KNBR-AM 11961 2,700 2,600 100 4% 166,900 165,300 1,600 KNBR-AM 13590 3,300 3,000 100 3% 40,100 39,000 1,100 KNBR-AM 11961 4,000 3,900 100 3% 40,100 39,000 1,100 KNBR-AM 11961 7,700 2,600 100 4% 166,900 165,300 1,600 KNBR-AM 15503 7,600 7,500 100 40,200 24,227,400 11,000 11,000 30,000 1,000 30,000 2,700 60 KNBR-AM 1500 1,000 3,000 100 3% 40,100 39,000 1,000 30,000 2,700 60 KNR-AM 1500 1,000 3,000 1,000 3% 40,100 39,000 1,000 30,000 2,700 60 KNR-AM 1500 1,000 3,000 1,000 3% 40,100 39,000 1,000 30,000 2,700 60 KNR-AM 1500 1,000 3,000	WTIC-AM	21058	2,300	2,100	200	9%	75,000	68,200	6,800	9%
WBZ-AM 15934 10,300 9,500 800 8% 241,500 224,300 17,200 7. KMOX-AM 12758 6,500 6,000 500 8% 267,000 240,200 26,800 11 KGO-AM 11626 4,600 4,300 300 7% 110,800 104,600 6,200 6 KFBK-AM 11371 4,700 4,400 300 6% 123,000 114,600 9,100 7. WBAP-AM 15592 3,200 3,000 200 6% 128,700 119,600 9,100 7. WHAS-AM 17380 3,400 3,200 200 6% 57,200 51,800 5,400 9. WHAS-AM 11301 1,700 1,600 100 6% 45,200 43,800 1,400 300 6% 128,700 119,600 9,100 7. WFH-AM 11301 1,700 1,600 100 6% 45,200 43,800 12,600 4. WPH-AM 11301 1,700 1,800 10,200 600 6% 317,200 304,600 12,600 4. WPH-AM 11400 125,800 24,500 1,300 5% 594,800 578,000 16,800 7. WHAS-AM 11352 2,000 1,900 100 5% 43,000 40,300 2,700 6. WHAS-AM 11352 2,000 1,900 100 5% 43,000 40,300 2,700 6. WHAS-AM 11352 2,000 1,900 100 5% 43,000 40,300 2,700 6. WHAS-AM 11266 7,000 1,000 100 4% 37,000 36,200 800 12,600 3. KFRB-AM 11266 7,000 1,000 100 4% 37,000 36,200 800 15,300 15,	WBBR-AM	15623	1,200	1,100	100	8%	67,100	61,400	5,700	8%
KMOX-AM 12758 6,500 6,000 500 8% 267,000 240,200 26,800 10 KGO-AM 11626 4,600 4,300 300 7% 110,800 104,600 6,200 6 KFBK-AM 11371 4,700 4,400 300 6% 123,000 114,600 8,400 WBAP-AM 15592 3,200 3,000 200 6% 128,700 119,600 9,100 WHAS-AM 17380 3,400 3,200 200 6% 57,200 51,800 5,400 5 KEX-AM 11301 1,700 1,600 100 6% 45,200 43,800 1,400 WSB-AM/WSBF-FM 20637 10,800 10,00 5% 73,500 68,700 4,800 7 KFI-AM 11400 25,800 24,500 1,300 5% 594,800 578,000 16,800 KRDA-AM 11352 2,000 1,900 100 5% 43,000	WHO-AM	17533	3,700	3,400	300	8%	48,000	42,100	5,900	12%
KGO-AM 11626 4,600 4,300 300 7% 110,800 104,600 6,200 6 KFBK-AM 11371 4,700 4,400 300 6% 123,000 114,600 8,400 WBAP-AM 15592 3,200 3,000 200 6% 128,700 119,600 9,100 WHAS-AM 17380 3,400 3,200 200 6% 57,200 51,800 5,400 5 KEX-AM 11301 1,700 1,600 100 6% 45,200 43,800 1,400 3 WSB-RM/WSBB-FM 20637 10,800 10,200 600 6% 317,200 304,600 12,600 4 WPHT-AM 17243 1,900 1,800 100 5% 73,500 68,700 4,800 3 KFAB-AM 11400 25,800 24,500 1,300 5% 594,800 578,000 16,800 3 KIRO-AM 11961 7,600 7300	WBZ-AM	15934	10,300	9,500	800	8%	241,500	224,300	17,200	7%
KFBK-AM 11371 4,700 4,400 300 6% 123,000 114,600 8,400 WBAP-AM 15592 3,200 3,000 200 6% 128,700 119,600 9,100 WHAS-AM 17380 3,400 3,200 200 6% 57,200 51,800 5,400 5 KEX-AM 11301 1,700 1,600 100 6% 45,200 43,800 1,400 3 WSB-AM/WSBB-FM 20637 10,800 10,200 600 6% 317,200 304,600 12,600 4 WPHT-AM 17243 1,900 1,800 100 5% 73,500 68,700 4,800 7 KF-AM 11400 25,800 24,500 1,300 5% 594,800 578,000 16,800 3 KF-AB-AM 11352 2,000 1,900 100 5% 43,000 40,300 2,700 6 WHAM-AM 17377 2,500 2,400	KMOX-AM	12758	6,500	6,000	500	8%	267,000	240,200	26,800	10%
WBAP-AM 15592 3,200 3,000 200 6% 128,700 119,600 9,100 WHAS-AM 17380 3,400 3,200 200 6% 57,200 51,800 5,400 9 KEX-AM 11301 1,700 1,600 100 6% 45,200 43,800 1,400 3 WSB-AM/WSBB-FM 20637 10,800 10,200 600 6% 317,200 304,600 12,600 4 WPHT-AM 17243 1,900 1,800 100 5% 73,500 68,700 4,800 3 KFI-AM 11400 25,800 24,500 1,300 5% 594,800 578,000 16,800 3 KFAB-AM 11352 2,000 1,900 100 4% 33,000 36,000 800 3 KIRO-AM 11961 2,700 2,600 100 4% 30,000 26670 15,300 1 166,00 1 KIRO-AM 13590	KGO-AM	11626	4,600	4,300	300	7%	110,800	104,600	6,200	6%
WHAS-AM 17380 3,400 3,200 200 6% 57,200 51,800 5,400 5 KEX-AM 11301 1,700 1,600 100 6% 45,200 43,800 1,400 3 WSB-AM/WSBB-FM 20637 10,800 10,200 600 6% 317,200 304,600 12,600 4 WPHT-AM 17243 1,900 1,800 100 5% 73,500 68,700 4,800 7 KFI-AM 11400 25,800 24,500 1,300 5% 594,800 578,000 16,800 3 KFAB-AM 11352 2,000 1,900 100 5% 43,000 40,300 2,700 6 WHAM-AM 12377 2,500 2,400 100 4% 37,000 36,200 800 2 KIRO-AM 11961 2,700 2,600 100 4% 166,900 165,300 1,600 3 40,100 39,000 1,100 3<	KFBK-AM	11371	4,700	4,400	300	6%	123,000	114,600	8,400	7%
KEX-AM 11301 1,700 1,600 100 6% 45,200 43,800 1,400 3 WSB-AM/WSBB-FM 20637 10,800 10,200 600 6% 317,200 304,600 12,600 4 WPHT-AM 17243 1,900 1,800 100 5% 73,500 68,700 4,800 3 KFI-AM 11400 25,800 24,500 1,300 5% 594,800 578,000 16,800 3 KFAB-AM 11352 2,000 1,900 100 5% 43,000 40,300 2,700 6 WHAM-AM 17377 2,500 2,400 100 4% 37,000 36,200 800 2 KIRO-AM 11961 2,700 2,600 100 4% 166,900 15,300 1,600 1 KRD-AM 13590 3,300 3,200 100 3% 40,100 39,000 1,100 3 KRLD-AM 13590 3,300 <td>WBAP-AM</td> <td>15592</td> <td>3,200</td> <td>3,000</td> <td>200</td> <td>6%</td> <td>128,700</td> <td>119,600</td> <td>9,100</td> <td>7%</td>	WBAP-AM	15592	3,200	3,000	200	6%	128,700	119,600	9,100	7%
WSB-AM/WSB-FM 20637 10,800 10,200 600 6% 317,200 304,600 12,600 4 WPHT-AM 17243 1,900 1,800 100 5% 73,500 68,700 4,800 7 KFI-AM 11400 25,800 24,500 1,300 5% 594,800 578,000 16,800 3 KFB-AM 11352 2,000 1,900 100 5% 43,000 40,300 2,700 6 WHAM-AM 17377 2,500 2,400 100 4% 37,000 36,200 800 2 KNBR-AM 12861 7600 7300 300 4% 302000 286700 15,300 5 KIRO-AM 11961 2,700 2,600 100 4% 166,900 165,300 1,600 WGY-AM/FM 17362 2,900 2,800 100 3% 40,100 39,000 1,100 3 KRLD-AM 13590 3,300 3,	WHAS-AM	17380	3,400	3,200	200	6%	57,200	51,800	5,400	9%
WPHT-AM 17243 1,900 1,800 100 5% 73,500 68,700 4,800 KFI-AM 11400 25,800 24,500 1,300 5% 594,800 578,000 16,800 KFAB-AM 11352 2,000 1,900 100 5% 43,000 40,300 2,700 6 WHAM-AM 17377 2,500 2,400 100 4% 37,000 36,200 800 2 KIRD-AM 12861 7600 7300 300 4% 302000 286700 15,300 5 KIRO-AM 11961 2,700 2,600 100 4% 166,900 165,300 1,600 3 WGY-AM/FM 17362 2,900 2,800 100 3% 40,100 39,000 1,100 3 KRLD-AM 13590 3,300 3,200 100 3% 121,000 118,700 2,300 WFAN-AM/FM 16860 23200 22500 700 3	KEX-AM	11301	1,700	1,600	100	6%	45,200	43,800	1,400	3%
KFI-AM 11400 25,800 24,500 1,300 5% 594,800 578,000 16,800 KFAB-AM 11352 2,000 1,900 100 5% 43,000 40,300 2,700 6 WHAM-AM 17377 2,500 2,400 100 4% 37,000 36,200 800 3 KNBR-AM 12861 7600 7300 300 4% 302000 286700 15,300 5 KIRO-AM 11961 2,700 2,600 100 4% 166,900 165,300 1,600 3 KRID-AM 13590 3,300 3,200 100 3% 40,100 39,000 1,100 3 KRLD-AM 13590 3,300 3,200 100 3% 121,000 118,700 2,300 3 VFAN-AM/FM 16860 23200 22500 700 3% 91070 885400 25,300 3 KDKA-AM 11074 4,000 3,900 <td>WSB-AM/WSBB-FM</td> <td>20637</td> <td>10,800</td> <td>10,200</td> <td>600</td> <td>6%</td> <td>317,200</td> <td>304,600</td> <td>12,600</td> <td>4%</td>	WSB-AM/WSBB-FM	20637	10,800	10,200	600	6%	317,200	304,600	12,600	4%
KFAB-AM 11352 2,000 1,900 100 5% 43,000 40,300 2,700 6 WHAM-AM 17377 2,500 2,400 100 4% 37,000 36,200 800 2 KNBR-AM 12861 7600 7300 300 4% 302000 286700 15,300 5 KIRO-AM 11961 2,700 2,600 100 4% 166,900 165,300 1,600 3 WGY-AM/FM 17362 2,900 2,800 100 3% 40,100 39,000 1,100 3 KRLD-AM 13590 3,300 3,200 100 3% 121,000 118,700 2,300 2 WFAN-AM/FM 16860 23200 22500 700 3% 910700 885400 25,300 3 KDKA-AM 11074 4,000 3,900 100 3% 79,900 74,900 5,000 6 WBBM-AM/WCFS-FM 15616 17,000 </td <td>WPHT-AM</td> <td>17243</td> <td>1,900</td> <td>1,800</td> <td>100</td> <td>5%</td> <td>73,500</td> <td>68,700</td> <td>4,800</td> <td>7%</td>	WPHT-AM	17243	1,900	1,800	100	5%	73,500	68,700	4,800	7%
WHAM-AM 17377 2,500 2,400 100 4% 37,000 36,200 800 2 KNBR-AM 12861 7600 7300 300 4% 302000 286700 15,300 5 KIRO-AM 11961 2,700 2,600 100 4% 166,900 165,300 1,600 1 WGY-AM/FM 17362 2,900 2,800 100 3% 40,100 39,000 1,100 3 KRLD-AM 13590 3,300 3,200 100 3% 121,000 118,700 2,300 2 WFAN-AM/FM 16860 23200 22500 700 3% 910700 88540 25,300 3 WGN-AM 11074 4,000 3,900 100 3% 79,900 74,900 5,000 6 WBBM-AM/WCFS-FM 15616 17,000 16,600 400 2% 522,200 506,200 16,000 3 KNX-AM 13013 9,000<	KFI-AM	11400	25,800	24,500	1,300	5%	594,800	578,000	16,800	3%
KNBR-AM 12861 7600 7300 300 4% 302000 286700 15,300 5 KIRO-AM 11961 2,700 2,600 100 4% 166,900 165,300 1,600 1 WGY-AM/FM 17362 2,900 2,800 100 3% 40,100 39,000 1,100 3 KRLD-AM 13590 3,300 3,200 100 3% 121,000 118,700 2,300 2 WFAN-AM/FM 16860 23200 22500 700 3% 910700 885400 25,300 3 KDKA-AM 11074 4,000 3,900 100 3% 79,900 74,900 5,000 6 WBBM-AM/WCFS-FM 15616 17,000 16,600 400 2% 522,200 506,200 16,000 3 KNX-AM 13013 9,000 8,800 200 2% 465,000 454,400 10,600 3 KYW-AM 15053	KFAB-AM	11352	2,000	1,900	100	5%	43,000	40,300	2,700	6%
KIRO-AM 11961 2,700 2,600 100 4% 166,900 165,300 1,600 WGY-AM/FM 17362 2,900 2,800 100 3% 40,100 39,000 1,100 3 KRLD-AM 13590 3,300 3,200 100 3% 121,000 118,700 2,300 2 WFAN-AM/FM 16860 23200 22500 700 3% 910700 885400 25,300 3 KDKA-AM 11074 4,000 3,900 100 3% 79,900 74,900 5,000 6 WGN-AM 17249 8,100 7,900 200 2% 227,400 218,000 9,400 4 WBBM-AM/WCFS-FM 15616 17,000 16,600 400 2% 522,200 506,200 16,000 3 KNX-AM 13013 9,000 8,800 200 2% 465,000 454,400 10,600 3 KYW-AM 15053 7,600	WHAM-AM	17377	2,500	2,400	100	4%	37,000	36,200	800	2%
WGY-AM/FM 17362 2,900 2,800 100 3% 40,100 39,000 1,100 3 KRLD-AM 13590 3,300 3,200 100 3% 121,000 118,700 2,300 2 WFAN-AM/FM 16860 23200 22500 700 3% 910700 885400 25,300 3 KDKA-AM 11074 4,000 3,900 100 3% 79,900 74,900 5,000 6 WGN-AM 17249 8,100 7,900 200 2% 227,400 218,000 9,400 4 WBBM-AM/WCFS-FM 15616 17,000 16,600 400 2% 522,200 506,200 16,000 3 KNX-AM 13013 9,000 8,800 200 2% 465,000 454,400 10,600 4 KYW-AM 15053 7,600 7,500 100 1% 284,900 278,100 6,800 2 WOR-AM 19785 <td< td=""><td>KNBR-AM</td><td>12861</td><td>7600</td><td>7300</td><td>300</td><td>4%</td><td>302000</td><td>286700</td><td>15,300</td><td>5%</td></td<>	KNBR-AM	12861	7600	7300	300	4%	302000	286700	15,300	5%
KRLD-AM 13590 3,300 3,200 100 3% 121,000 118,700 2,300 WFAN-AM/FM 16860 23200 22500 700 3% 910700 885400 25,300 KDKA-AM 11074 4,000 3,900 100 3% 79,900 74,900 5,000 WGN-AM 17249 8,100 7,900 200 2% 227,400 218,000 9,400 WBBM-AM/WCFS-FM 15616 17,000 16,600 400 2% 522,200 506,200 16,000 KNX-AM 13013 9,000 8,800 200 2% 465,000 454,400 10,600 KYW-AM 15053 7,600 7,500 100 1% 284,900 278,100 6,800 WOR-AM 19785 11,500 11,400 100 1% 407,500 401,800 5,700 WSCR-AM 20667 12,500 12,400 100 1% 474,200 466,300 7,900	KIRO-AM	11961	2,700	2,600	100	4%	166,900	165,300	1,600	1%
WFAN-AM/FM 16860 23200 22500 700 3% 910700 885400 25,300 3 KDKA-AM 11074 4,000 3,900 100 3% 79,900 74,900 5,000 6 WGN-AM 17249 8,100 7,900 200 2% 227,400 218,000 9,400 4 WBBM-AM/WCFS-FM 15616 17,000 16,600 400 2% 522,200 506,200 16,000 3 KNX-AM 13013 9,000 8,800 200 2% 465,000 454,400 10,600 2 KYW-AM 15053 7,600 7,500 100 1% 284,900 278,100 6,800 2 WOR-AM 19785 11,500 11,400 100 1% 407,500 401,800 5,700 1 WSCR-AM 20667 12,500 12,400 100 1% 474,200 466,300 7,900 2 WFME-AM 20108	WGY-AM/FM	17362	2,900	2,800	100	3%	40,100	39,000	1,100	3%
KDKA-AM 11074 4,000 3,900 100 3% 79,900 74,900 5,000 6 WGN-AM 17249 8,100 7,900 200 2% 227,400 218,000 9,400 4 WBBM-AM/WCFS-FM 15616 17,000 16,600 400 2% 522,200 506,200 16,000 3 KNX-AM 13013 9,000 8,800 200 2% 465,000 454,400 10,600 2 KYW-AM 15053 7,600 7,500 100 1% 284,900 278,100 6,800 2 WOR-AM 19785 11,500 11,400 100 1% 407,500 401,800 5,700 1 WSCR-AM 20667 12,500 12,400 100 1% 474,200 466,300 7,900 2 WFME-AM 20108 4,300 4,300 0 0% 170,900 165,700 5,200 3 KNZR-AM 13020 <td< td=""><td>KRLD-AM</td><td>13590</td><td>3,300</td><td>3,200</td><td>100</td><td>3%</td><td>121,000</td><td>118,700</td><td>2,300</td><td>2%</td></td<>	KRLD-AM	13590	3,300	3,200	100	3%	121,000	118,700	2,300	2%
WGN-AM 17249 8,100 7,900 200 2% 227,400 218,000 9,400 4 WBBM-AM/WCFS-FM 15616 17,000 16,600 400 2% 522,200 506,200 16,000 3 KNX-AM 13013 9,000 8,800 200 2% 465,000 454,400 10,600 3 KYW-AM 15053 7,600 7,500 100 1% 284,900 278,100 6,800 2 WOR-AM 19785 11,500 11,400 100 1% 407,500 401,800 5,700 1 WSCR-AM 20667 12,500 12,400 100 1% 474,200 466,300 7,900 2 WCCO-AM 15996 6,300 6,300 0 0% 170,900 165,700 5,200 3 KNZR-AM 20108 4,300 4,300 0 0% 31,700 30,500 1,200 4 KWKH-AM 14682 1	WFAN-AM/FM	16860	23200	22500	700	3%	910700	885400	25,300	3%
WBBM-AM/WCFS-FM 15616 17,000 16,600 400 2% 522,200 506,200 16,000 3 KNX-AM 13013 9,000 8,800 200 2% 465,000 454,400 10,600 2 KYW-AM 15053 7,600 7,500 100 1% 284,900 278,100 6,800 2 WOR-AM 19785 11,500 11,400 100 1% 407,500 401,800 5,700 1 WSCR-AM 20667 12,500 12,400 100 1% 474,200 466,300 7,900 2 WCCO-AM 15996 6,300 6,300 0 0% 170,900 165,700 5,200 3 WFME-AM 20108 4,300 4,300 0 0% 31,700 30,500 1,200 4 KNZR-AM 13020 100 100 0 0% 4,000 4,000 0 0 KWKH-AM 14682 100	KDKA-AM	11074	4,000	3,900	100	3%	79,900	74,900	5,000	6%
KNX-AM 13013 9,000 8,800 200 2% 465,000 454,400 10,600 2 KYW-AM 15053 7,600 7,500 100 1% 284,900 278,100 6,800 2 WOR-AM 19785 11,500 11,400 100 1% 407,500 401,800 5,700 1 WSCR-AM 20667 12,500 12,400 100 1% 474,200 466,300 7,900 2 WCCO-AM 15996 6,300 6,300 0 0% 170,900 165,700 5,200 3 WFME-AM 20108 4,300 4,300 0 0% 31,700 30,500 1,200 4 KNZR-AM 13020 100 100 0 0% 4,000 4,000 0 0 KWKH-AM 14682 100 100 0 0% 2,700 2,100 600 22 WWKB-AM 21653 200 200	WGN-AM	17249	8,100	7,900	200	2%	227,400	218,000	9,400	4%
KYW-AM 15053 7,600 7,500 100 1% 284,900 278,100 6,800 2 WOR-AM 19785 11,500 11,400 100 1% 407,500 401,800 5,700 1 WSCR-AM 20667 12,500 12,400 100 1% 474,200 466,300 7,900 2 WCCO-AM 15996 6,300 6,300 0 0% 170,900 165,700 5,200 3 WFME-AM 20108 4,300 4,300 0 0% 31,700 30,500 1,200 4 KNZR-AM 13020 100 100 0 0% 4,000 4,000 0 0 KWKH-AM 14682 100 100 0 0% 2,700 2,100 600 22 WWKB-AM 21653 200 200 0 0% 4,800 4,400 400 8 KOKC-AM 13107 100 100 0	WBBM-AM/WCFS-FM	15616	17,000	16,600	400	2%	522,200	506,200	16,000	3%
WOR-AM 19785 11,500 11,400 100 1% 407,500 401,800 5,700 1 WSCR-AM 20667 12,500 12,400 100 1% 474,200 466,300 7,900 2 WCCO-AM 15996 6,300 6,300 0 0% 170,900 165,700 5,200 3 WFME-AM 20108 4,300 4,300 0 0% 31,700 30,500 1,200 4 KNZR-AM 13020 100 100 0 0% 4,000 4,000 0 0 KWKH-AM 14682 100 100 0 0% 2,700 2,100 600 22 WWKB-AM 21653 200 200 0 0% 4,800 4,400 400 8 KOKC-AM 13107 100 100 0 0% 4,800 4,400 400 8	KNX-AM	13013	9,000	8,800	200	2%	465,000	454,400	10,600	2%
WSCR-AM 20667 12,500 12,400 100 1% 474,200 466,300 7,900 2 WCCO-AM 15996 6,300 6,300 0 0% 170,900 165,700 5,200 3 WFME-AM 20108 4,300 4,300 0 0% 31,700 30,500 1,200 4 KNZR-AM 13020 100 100 0 0% 4,000 4,000 0 0 KWKH-AM 14682 100 100 0 0% 2,700 2,100 600 22 WWKB-AM 21653 200 200 0 0% 4,800 4,400 400 8 KOKC-AM 13107 100 100 0 0% 4,800 4,400 400 8	KYW-AM	15053	7,600	7,500	100	1%	284,900	278,100	6,800	2%
WCCO-AM 15996 6,300 6,300 0 0% 170,900 165,700 5,200 3 WFME-AM 20108 4,300 4,300 0 0% 31,700 30,500 1,200 4 KNZR-AM 13020 100 100 0 0% 4,000 4,000 0 0 KWKH-AM 14682 100 100 0 0% 2,700 2,100 600 22 WWKB-AM 21653 200 200 0 0% 4,100 3,700 400 10 KOKC-AM 13107 100 100 0 0% 4,800 4,400 400 8	WOR-AM	19785	11,500	11,400	100	1%	407,500	401,800	5,700	1%
WFME-AM 20108 4,300 4,300 0 0% 31,700 30,500 1,200 4 KNZR-AM 13020 100 100 0 0% 4,000 4,000 0 0 KWKH-AM 14682 100 100 0 0% 2,700 2,100 600 22 WWKB-AM 21653 200 200 0 0% 4,100 3,700 400 10 KOKC-AM 13107 100 100 0 0% 4,800 4,400 400 8	WSCR-AM	20667	12,500	12,400	100	1%	474,200	466,300	7,900	2%
KNZR-AM 13020 100 100 0 0% 4,000 4,000 0 0 KWKH-AM 14682 100 100 0 0% 2,700 2,100 600 22 WWKB-AM 21653 200 200 0 0% 4,100 3,700 400 10 KOKC-AM 13107 100 100 0 0% 4,800 4,400 400 8	WCCO-AM	15996	6,300	6,300	0	0%	170,900	165,700	5,200	3%
KWKH-AM 14682 100 100 0 0% 2,700 2,100 600 22 WWKB-AM 21653 200 200 0 0% 4,100 3,700 400 10 KOKC-AM 13107 100 100 0 0% 4,800 4,400 400 8	WFME-AM	20108	4,300	4,300	0	0%	31,700	30,500	1,200	4%
WWKB-AM 21653 200 200 0 0% 4,100 3,700 400 10 KOKC-AM 13107 100 100 0 0% 4,800 4,400 400 8	KNZR-AM	13020	100	100	0	0%	4,000	4,000	0	0%
KOKC-AM 13107 100 100 0 0% 4,800 4,400 400 8	KWKH-AM	14682	100	100	0	0%	2,700	2,100	600	22%
	WWKB-AM	21653	200	200		0%	4,100	3,700	400	10%
KAAY-AM 10207 0 0 0 0 n/a 700 0 700 100	KOKC-AM	13107	100	100			4,800	4,400	400	8%
	KAAY-AM	10207	0	0	0	n/a	700	0	700	100%

Percentage of Daytime Listening, Weekly Cume P12+, M-Su 6a 7p (Source: Nielsen National Regional Database, Spring 2018)

Station	Weekly Cume P12+, M-Su 6a-7p	Listening in Counties Wholly Outside the 0.5 mV/m Daytime Groundwave Contour	Listening in Counties Outside + Partially Outside the 0.5 mV/m Daytime Groundwave Contour		
KAAY	9,200	34.8%	35.9%		
WRVA	100,900	25.0%	34.0%		
KFBK	361,300	1.6%	30.1%		
KSL	373,000	1.4%	30.1%		
комо	375,500	3.5%	24.3%		
WSM	64,400	13.4%	24.2%		
KFI	1,404,400	1.3%	23.9%		
WFED	27,400	15.3%	23.0%		
WBBR	180,700	3.7%	22.5%		
KXEL	35,400	4.2%	21.2%		
WLAC	67,400	9.3%	21.1%		
WFME	60,300	2.2%	20.6%		
WBZ	701,900	4.1%	18.2%		
WCBS	1,317,900	1.1%	17.5%		
KSTP	110,500	11.5%	17.1%		
WWVA	29,100	7.6%	16.2%		
KNX	1,297,300	1.7%	15.4%		
WOR	925,600	2.3%	14.4%		
WFAN	1,786,100	1.7%	12.6%		
WBT	193,800	4.6%	12.5%		
WOAI	284,900	4.6%	12.2%		
WCCO	431,800	4.7%	12.1%		
WABC	648,800	2.6%	11.0%		
WSB	841,600	3.2%	9.2%		
WWKB	12,300	0.0%	8.9%		
KNBR	761,400	3.0%	8.5%		
KOA	465,800	1.8%	8.4%		
WLS	364,700	6.2%	7.9%		
WTIC	182,500	2.4%	7.8%		
KGO	312,400	0.6%	7.2%		
KIRO	395,900	1.5%	6.9%		
WCKY	71,900	3.6%	6.8%		
KEX	123,100	1.2%	5.8%		
WPHT	206,200	1.3%	5.8%		
WWL	168,500	3.4%	5.2%		
WGY	118,900	1.4%	5.1%		
WHAM	114,500	1.0%	5.0%		
WBAL	178,000	2.7%	4.9%		

Percentage of Daytime Listening, Weekly Cume P12+, M-Su 6a 7p (Source: Nielsen National Regional Database, Spring 2018)

Station	Weekly Cume P12+, M-Su 6a-7p	Listening in Counties Wholly Outside the 0.5 mV/m Daytime Groundwave Contour	Listening in Counties Outside + Partially Outside the 0.5 mV/m Daytime Groundwave Contour	
WGN	636,300	3.4%	4.9%	
KYW	746,600	1.4%	4.7%	
WBAP	421,100	3.3%	4.7%	
WMVP	390,400	3.8%	4.3%	
KWKH	11,700	2.6%	4.3%	
WHO	154,000	2.6%	4.0%	
WJR	396,100	2.4%	3.9%	
KFAQ	36,600	2.2%	3.8%	
KDKA	215,500	1.8%	3.6%	
WTAM	383,200	2.0%	3.5%	
WBBM	1,279,500	1.6%	3.4%	
KMOX	525,100	2.0%	3.4%	
WLW	449,600	2.1%	3.1%	
KFAB	149,500	1.6%	2.8%	
WSCR	1,028,000	0.0%	2.3%	
KRLD	436,800	1.0%	2.3%	
WHAS	180,600	1.2%	2.2%	
KNZR	22,600	0.0%	2.2%	
KOKC	11,100	0.0%	0.0%	